

PERSONAL INFORMATION

WEBSITE / EMAIL / CITY: jiebao.ca / jiebao995@gmail.com / Montreal, Quebec, Canada

COMPUTER SKILLS

PYTHON. C++, TERRAFORM, LINUX, AZURE, FASTAPI, K8S, SQLAlchemy, GIT, DOCKER

EDUCATION

CURRENT

Mila - Université de Montréal, Montreal, Quebec, Canada

COMPUTER SCIENCE MASTER STUDENT (PART-TIME)

Focus on NLP and Computer Graphics

Realistic Image Synthesis - ECSE 546: A Applied Machine Learning - COMP 551: A

Natural Language Processing with Deep Learning - IFT 6289: A-Fundamentals of Computer Graphics - COMP 557: Current

2015-2021

Concordia University, Montreal, Quebec, Canada

Thesis: Deep Learning for Turbulence Modeling

Master of Applied Science, GPA: 4.0/4.3

Bachelor of Engineering, Aerospace Engineering

WORK EXPERIENCE

2022-Current

Data Engineering Specialist, CAE

Building internal Data Plateform - CAE Data Catalog: Implemented data quality and observability backend. Design data pipelines using event-driven autoscaling, and Spark. Addressed data inconsistencies by automatically informing data producers on best action items. API skills creation for chatbot service.

2019-2021

Graduate Student Researcher, COMPUTATIONAL AEROSPACE LAB

Turbulence Modeling using Machine Learning Techniques

Numerical methods, data cleaning, acquisition and analysis using Matlab & Python. Created an end-to-end ML pipeline for turbulent production values. Achieved over 90% R^2 accuracy. Practiced public speaking as a researcher and gave bi-weekly presentations as teaching assistant - AERO 490.

PROJECTS

2023-Current

Path Tracer Engine

Implementation from scratch of a Path tracer for global illumination. 3D scenes are generated using next event estimation. Scenes include MIS on Veach's experiment, Stanford Bunny, and Cornell Box. SEE MORE HERE.

LANGUAGES

FRENCH, ENGLISH, CHINESE (MANDARIN): Fluent

INTERESTS AND ACTIVITIES

Skateboarding, Snowboard, and River Surfing.